

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

---

Defective images within this document are accurate representations of  
the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

## Refine Search

### Search Results -

Terms	Documents
bridge same receiver same command same bus	32

Database:

US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

Search:

L1

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Wednesday, June 23, 2004 [Printable Copy](#) [Create Case](#)**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=USPT,USOC; PLUR=YES; OP=OR*L1 bridge same receiver same command same bus 32 L1

END OF SEARCH HISTORY

## Refine Search

---

### Search Results -

Terms	Documents
L1	0

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L2






---

### Search History

---

DATE: Wednesday, June 23, 2004    [Printable Copy](#)    [Create Case](#)

**Set Name Query**

side by side

**Hit Count Set Name**

result set

*DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

L2    L1

0    L2

*DB=USPT,USOC; PLUR=YES; OP=OR*

L1    bridge same receiver same command same bus

32    L1

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
(370/276  370/401  370/402  370/423  370/912  709/230  709/250  709/253  710/52  710/62  710/36  710/307  710/2  710/33  710/300  710/306  710/313).ccls.	7028

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L3

Refine Search

Recall Text

Clear

Interrupt

### Search History

 DATE: Wednesday, June 23, 2004    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name</u> <u>Query</u> side by side	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Nam</u> resul set
<i>DB=USPT,USOC; PLUR=YES; OP=OR</i>		
<u>L3</u> 710/52,62,36,307,2,33,300,306,313;709/230,250,253;370/276,401,402,423,912.ccls.	7028	<u>L3</u>
<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<u>L2</u> L1	0	<u>L2</u>
<i>DB=USPT,USOC; PLUR=YES; OP=OR</i>		
<u>L1</u> bridge same receiver same command same bus	32	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
L1 and L3	1

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L4

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Wednesday, June 23, 2004    [Printable Copy](#)    [Create Case](#)

<u>Set</u> <u>Name Query</u> side by side	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Nam</u> resul set
<i>DB=USPT,USOC; PLUR=YES; OP=OR</i>		
<u>L4</u> l1 and L3	1	<u>L4</u>
<u>L3</u> 710/52,62,36,307,2,33,300,306,313;709/230,250,253;370/276,401,402,423,912.ccls. <i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>	7028	<u>L3</u>
<u>L2</u> L1	0	<u>L2</u>
<i>DB=USPT,USOC; PLUR=YES; OP=OR</i>		
<u>L1</u> bridge same receiver same command same bus	32	<u>L1</u>

END OF SEARCH HISTORY



EAST - [Untitled1:1]

File View Edit Tools Window Help

☐ Drafts  
☐ Pending  
☒ Active  
     L1: (29) bridge same receive  
     L2: (9) 11 and node  
☐ Failed  
☐ Saved  
☐ Favorites  
☐ Tagged (0)  
☐ UDC  
☐ Queue  
☐ Trash

Search List Browse Queue Clear  
 DBs: USPAT ☒ Plurals  
 Default operator: OR ☒ Highlight all hit terms initially  
 11 and node

BRS I... IS&R... Image Text HTML

	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current XRef R
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6192254 B1	20010220	14	Personal portable apparatus for use in completing a	455/552.1	
2	<input type="checkbox"/>	<input type="checkbox"/>	US 5960064 A	19990928	14	Call screening method and apparatus for use in	379/88.26	379/211.01; 455/413;
3	<input type="checkbox"/>	<input type="checkbox"/>	US 5894595 A	19990413	17	Personal mobile communication system	455/556.2	455/459; 455/567
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5884167 A	19990316	15	Method for completing a conference with a personal	455/432.1	370/267; 379/111;
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5761277 A	19980602	10	personal mobile communication system	379/221.05	379/207.05; 379/207.07;
6	<input type="checkbox"/>	<input type="checkbox"/>	US 5706329 A	19980106	10	Personal mobile communication system having	455/459	379/211.02; 379/212.01;
7	<input type="checkbox"/>	<input type="checkbox"/>	US 5644626 A	19970701	14	Apparatus and method for connecting telephone calls	340/7.21	340/825.49; 455/459
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5608782 A	19970304	14	Telephone call connection method with automated paging	455/461	379/88.12; 379/88.21;
9	<input type="checkbox"/>	<input type="checkbox"/>	US 5546442 A	19960813	10	Method and apparatus for use in completing telephone	455/417	379/221.01; 379/88.15;

Start ☐ ☐ ☐ ☐ Proxima.SSO EAST - [Untitled1...

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)

[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)
**IEEE Xplore®**  
RELEASE 1.7

 Welcome  
United States Patent and Trademark Office


» Se

[Help](#) | [FAQ](#) | [Terms](#) | [IEEE Peer Review](#)
[Quick Links](#)
**Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

**Tables of Contents**

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

**Search**

- ☐ By Author
- ☐ Basic
- ☐ Advanced

**Member Services**

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

 Your search matched **0** of **1046194** documents.

 A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

**Refine This Search:**

You may refine your search by editing the current search expression or enter a new one in the text box.


☐ Check to search within this result set

**Results Key:**
**JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard

**Results:**
**No documents matched your query.**
[Print Format](#)
[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved



IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore®**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office


» See

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)

## Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

## Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

## Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

## Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Your search matched **1** of **1046194** documents.A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

## Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.


☐ Check to search within this result set

## Results Key:

JNL = Journal or Magazine   CNF = Conference   STD = Standard

**1 A method to analyze interference from frequency hopping radios and application to the PROFFAR cosite filter for the Swedish army**

Carlsson, O.;

 Military Communications Conference, 1989. MILCOM '89. Conference Record.  
 'Bridging the Gap. Interoperability, Survivability, Security'. , 1989 IEEE , 15-1  
 1989

Pages:928 - 934 vol.3

[\[Abstract\]](#)   [\[PDF Full-Text \(440 KB\)\]](#)   **IEEE CNF**


Print Format

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs

**IEEE Xplore®**  
 RELEASE 1.7

 Welcome  
 United States Patent and Trademark Office

[Help](#) [FAQ](#) [Terms](#) [IEEE Peer Review](#)
[Quick Links](#)
**Welcome to IEEE Xplore®**

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

**Tables of Contents**

- ☐ Journals & Magazines
- ☒ Conference Proceedings
- ☐ Standards

**Search**

- ☐ By Author
- ☐ Basic
- ☐ Advanced

**Member Services**

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

 Search Results [\[PDF FULL-TEXT 440 KB\]](#) [DOWNLOAD CITATION](#)

 Request Permissions  
**RIGHTS LINK**

## A method to analyze interference from frequency h radios and its application to the PROFFAR cosite filter the Swedish army

Carlsson, O.

Telub Teknik AB, Vaxjo, Sweden;

*This paper appears in: Military Communications Conference, 1989. MILC Conference Record. 'Bridging the Gap. Interoperability, Survivability, 1989 IEEE*

Meeting Date: 10/15/1989 - 10/18/1989

Publication Date: 15-18 Oct. 1989

Location: Boston, MA USA

On page(s): 928 - 934 vol.3

Reference Cited: 3

Inspec Accession Number: 3659777

### Abstract:

A computerized method (called SIGFRID) to simulate the amount of frequency interference in a **receiver** subjected to a number of interfering transmitters in situation was developed a few years ago. The method handles full scenarios, friendly and hostile distant transmitters, jammers, ambient noise, and propagation characteristics. Modeling of important **receiver** and transmitter properties to analysis of densely colocated radios, as encountered in army vehicles and **cor** posts, is included. In the present work the author considers the cosite modeling application to the analysis of improvements in cosite performance achieved by PROFFAR cosite filter. It was shown that, using the facilities of SIGFRID, the improvement achieved by using PROFFAR can be readily demonstrated by sub laboratory radio link to the simulated interference

### Index Terms:

[frequency agility](#) [military computing](#) [military systems](#) [mobile radio systems](#) [radiocon](#) [radiofrequency filters](#) [radiofrequency interference](#) [RFI](#) [SIGFRID](#) [army vehicles](#) [cor](#) [posts](#) [cosite modeling](#) [densely colocated radios](#) [frequency hopping radios](#) [jamming](#) [laboratory radio link](#) [receiver interference](#) [receiver properties](#) [relative range](#) [simula](#) [interference](#) [simulation program](#) [transmitter properties](#)

**Documents that cite this document**

There are no citing documents available in IEEE Xplore at this time.

---

[Search Results](#) [\[PDF FULL-TEXT 440 KB\]](#) [DOWNLOAD CITATION](#)

---

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) |  
[New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

---

Copyright © 2004 IEEE — All rights reserved

---

First Hit   Fwd Refs

End of Result Set



Generate Collection

L1: Entry 1 of 1

File: USPT

Feb 24, 2004

US-PAT-NO: 6697890

DOCUMENT-IDENTIFIER: US 6697890 B1

TITLE: I/O node for a computer system including an integrated I/O interface

DATE-ISSUED: February 24, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gulick; Dale E.	Austin	TX		
Hewitt; Larry D.	Austin	TX		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Advanced Micro Devices, Inc.	Sunnyvale	CA			02

APPL-NO: 10/ 034878   [PALM]

DATE FILED: December 27, 2001

INT-CL: [07] G06 F 13/12

US-CL-ISSUED: 710/62; 710/33, 710/36, 710/106, 709/201, 709/230

US-CL-CURRENT: 710/62; 709/201, 709/230, 710/106, 710/33, 710/36

FIELD-OF-SEARCH: 710/1, 710/15, 710/17, 710/18, 710/29, 710/31, 710/33, 710/36, 710/38, 710/41, 710/62, 710/64, 710/72, 710/105, 710/106, 712/29, 712/225, 709/201, 709/230

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5432907</u>	July 1995	Picazo, Jr. et al.	395/200
<input type="checkbox"/> <u>5490168</u>	February 1996	Phillips et al.	375/224
<input type="checkbox"/> <u>5812930</u>	September 1998	Zavrel	455/5.1
<input type="checkbox"/> <u>5859848</u>	January 1999	Miura et al.	370/395
<input type="checkbox"/> <u>6278532</u>	August 2001	Heimendinger et al.	
<input type="checkbox"/> <u>6282714</u>	August 2001	Ghori et al.	725/81

<input type="checkbox"/>	<u>6359907</u>	March 2002	Wolters et al.	370/485
<input type="checkbox"/>	<u>6414525</u>	July 2002	Urakawa	
<input type="checkbox"/>	<u>6532283</u>	March 2003	Ingram	379/130

## OTHER PUBLICATIONS

U.S. patent application Ser. No. 09/978,349, filed Oct. 15, 2001.

U.S. patent application Ser. No. 10/093,146, filed Mar. 7, 2002.

ART-UNIT: 2182

PRIMARY-EXAMINER: Gaffin; Jeffrey

ASSISTANT-EXAMINER: Mai; Rijue

ATTY-AGENT-FIRM: Meyertons Hood Kivlin Kowert & Goetzel, P.C. Kivlin; B. Noel

## ABSTRACT:

An I/O node for a computer system including an integrated I/O interface. An input/output node for a computer system that is implemented upon an integrated circuit includes a first transceiver unit, a second transceiver unit, a packet tunnel, a bridge unit and an I/O interface unit. The first transceiver unit may receive and transmit packet transactions on a first link of a packet bus. The second transceiver unit may receive and transmit packet transactions on a second link of the packet bus. The packet tunnel may convey selected packet transactions between the first and second transceiver units. The bridge unit may receive particular packet transactions from the first transceiver may transmit transactions corresponding to the particular packet transactions upon a peripheral bus. The I/O interface unit may receive additional packet transactions from the first transceiver unit and may transmit transactions corresponding to the additional packet transactions upon an I/O link.

20 Claims, 2 Drawing figures

First Hit   Fwd Refs  
**End of Result Set**

☐ **Generate Collection** **Print**

L4: Entry 1 of 1

File: USPT

Jun 20, 2000

US-PAT-NO: 6078976

DOCUMENT-IDENTIFIER: US 6078976 A

TITLE: Bridge device that prevents decrease in the data transfer efficiency of  
buses

DATE-ISSUED: June 20, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Obayashi; Yoshimasa	Kyoto			JP

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
Matsushita Electric Industrial Co., Ltd.				JP		03

APPL-NO: 09/ 102685   [PALM]

DATE FILED: June 23, 1998

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	9-167332	June 24, 1997
JP	10-074706	March 23, 1998

INT-CL: [07] G06 F 13/40

US-CL-ISSUED: 710/128; 710/52, 710/113

US-CL-CURRENT: 710/315; 710/113, 710/310, 710/52

FIELD-OF-SEARCH: 710/100, 710/101, 710/52, 710/113-130, 710/240-244

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

**Search Selected****Search ALL****Clear**

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4939643</u>	July 1990	Long et al.	
<input type="checkbox"/> <u>5546546</u>	August 1996	Bell et al.	
<input type="checkbox"/> <u>5584033</u>	December 1996	Barrett et al.	710/105

<input type="checkbox"/>	<u>5659718</u>	August 1997	Osman et al.	
<input type="checkbox"/>	<u>5768548</u>	June 1998	Young et al.	710/129
<input type="checkbox"/>	<u>5778236</u>	July 1998	Gephardt et al.	710/266
<input type="checkbox"/>	<u>5857082</u>	January 1999	Murdoch et al.	710/128

## OTHER PUBLICATIONS

"Digital Semiconductor 21152 PCI-toPCI Data Sheet," Digital Equipment Corporation, Maynard, MA, Sep. 1997.

---

ART-UNIT: 271

PRIMARY-EXAMINER: Thai; Xuan M.

ATTY-AGENT-FIRM: Price, Gess & Ubell

## ABSTRACT:

When the use of a receiver the bus is not be acquired in delayed read or posted write, the length of a burst data transfer is limited by the capacity of the buffer in a bridge device. In order to solve this problem, waits are inserted in data output process via a sender bus in delayed read or posted write according to the condition of the receiver bus. As a result, input rate of data into the buffer in the bridge device is kept constant, and the use of the receiver bus can be acquired in the delayed read or the posted write. Data is simultaneously transferred into and from the buffer in the bridge device, so that the probability of burst data transfer with a long burst data transfer length is increased.

16 Claims, 11 Drawing figures

FAST Browser - L2: (9) 1 and node | US 5546442 A | Tag: S | Doc: 9/9 | Format: KWIC

File Edit View Tools Window Help

US-PAT-NO:5546442

DOCUMENT-IDENTIFIER:US 5546442 A

TITLE:Method and apparatus for use in completing telephone calls

----- KWIC -----

Detailed Description Text - DETX (4):

Bridging and signaling unit 109 implements a so-called "meet-me bridge" for connecting at least two incoming telephone calls to each other. Upon receipt of the caller's telephone call, bridging and signaling unit 109 forwards paging information to paging node 115. The paging information includes a predetermined code that uniquely identifies the called individual's pager 103 and, if not predetermined, a telephone number to which a return telephone call must be place in order to connect with, or "meet", the caller's telephone call. A copy of the predetermined code is stored within pager 103. Also, the telephone number for the return telephone call is reserved, in advance, for use by bridging and signaling unit 109. Its selection is described further below. Paging node 115 causes a paging signal containing the paging information to be broadcast from paging tower 119. Pagers and paging systems are well known in the art.

Detailed Description Text - DETX (9):

FIG. 2 shows, in block diagram form, an expanded view of bridging and signaling unit 109. Bridging and signaling unit 109 includes: a) trunk interfaces 401, b) dual tone multi-frequency (DTMF) receivers 403, c) bridge control 405, d) voice amplifier and ringback units 407, e) switch fabric 409, f) DTMF generators 411 and g) trunk interfaces 413. Bridge control 405 controls and coordinates the operation of bridging and signaling unit 109 by communicating commands and information over control bus 417.

Detailed Description Text - DETX (12):

Bridge control 405 contains memory 419. Memory 419 maps the received four digits of the called individual's personal telephone number to the predetermined code stored in the pager 103 associated with the called





US005546442A

**United States Patent** [19]  
Foladare et al.

[11] **Patent Number:** 5,546,442  
[45] **Date of Patent:** Aug. 13, 1996

[54] **METHOD AND APPARATUS FOR USE IN COMPLETING TELEPHONE CALLS**

5,394,465 2/1995 Jo ..... 379/212  
5,414,750 5/1995 Bhagat et al. .... 379/57

[73] **Inventors:** Mark J. Foladare, Kendall Park;  
Shelley B. Goldman, East Brunswick;  
Nancy Murray, Morris Township;  
David P. Silverman, Somerville;  
Yao-Chung Tsao, Middletown; Roy P.  
Weber, Bridgewater, all of N.J.

**Primary Examiner**—Dwayne D. Bost  
**Attorney, Agent, or Firm**—Eugene J. Rosenthal

[57] **ABSTRACT**

We have recognized that in the prior art, to insure that there is at least some communication between the calling and called parties, when the called party is unavailable to take a call, the calling party may be connected to an alternate destination, e.g., a voice messaging system, and the caller's telephone call is considered completed. If the called party thereafter becomes available, the called party is not connected to the caller's telephone call. However, in accordance with the principles of the invention, this problem is overcome by, in response to receipt of an indication that the called party is available for a caller's telephone call after the caller's telephone call has already been connected to an alternate destination, a) disconnecting the caller's telephone call from the alternate destination and, instead, b) connecting it to the called party, thus interrupting the connection between the caller and the alternate destination. Optionally, a tone or announcement may be supplied to the caller to indicate that the called party will now be connected "live" to the caller.

[73] **Assignee:** AT&T Corp., Murray Hill, N.J.

[21] **Appl. No.:** 264,631

[22] **Filed:** Jun. 23, 1994

[31] **Int. Cl.<sup>8</sup>** ..... H04Q 7/06; H04M 3/48;  
HD4M 3/34

[32] **U.S. Cl.** ..... 377/57; 379/57; 379/210

[58] **Field of Search** ..... 379/57, 210, 211,  
379/212, 67, 88, 89

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

4,723,273 2/1988 Doseel et al. .... 379/211  
5,151,929 9/1992 Wolf ..... 379/57  
5,243,642 9/1993 Wise, Jr. et al. .... 379/82  
5,327,480 7/1994 Braden ..... 379/57

4 Claims, 4 Drawing Sheets

